

200100077

HHIE ON HED SHAPES OF AMIERIOS

TO ALL TO WHOM THESE PRESENTS SHALL COME; Pioneer Hi-Bred International, Inc.

MICTERS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXPUBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARL) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OF ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC eplenishment of viable basic seed of the variety in a public repository as provided by LAW , the TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RTING II. OR EXPORTING II, OR CONDITIONING II FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT ED BY THE PEANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'97B52'

In Testimony Thereof, I have hereunto set my hand and caused the seal of the Hunt Unriety Froterion Office to be affixed at the City of Washington, D.C. this eighth day of May, in the year of our Lord two thousand one.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information collection burden statement on reversely.

	latement on reverse)					
 NAME OF OWNER Pioneer Hi-Bred International, Inc. 			2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 97B52			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZH 7300 N. W. 62 nd Avenue P. O. Box 1004 Johnston, IA 50131	P Code, and Country)		5. TELEPHONE (include 515-254-2638	PVPO NUMBER 0 1 0 0 7 7		
			515-253-2288	,	FILING DATE	
 IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM O ORGANIZATION (corporation, partnership, association, etc.) Corporation 	RATED, GIVE NCORPORATION	9. DATE OF INCORPOR	ATION	January 25, 20		
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S Daria Schmidt, Ph.D. 7300 NW 62 nd Ave. P.O. Box 1004 Johnston, Iowa 50131-1004	Jean Bromert 7100 NW 62 nd P. O. Box 10	(CODY)	receive all papers)	A CONTRACTOR OF THE PROPERTY O	FILING AND EXAMINATION FEES: \$ 2705 - BE DATE JON 25, C CERTIFICATION FEES \$ 300	
11. TELEPHONE (Include area code) 12. FAX (Include 15.5-25.4-26.38) 515-254-2638 515-253-22.8	I	E-MAIL idtdh@phibred	. Com	14. CRO	DATE 4//3/0) PKIND (Common Name)	
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUB reverse) a.	tional) wnership for tuber propagated varieties, maintained in an approved public to "Treasurer of the United L) OR A HYBRID PRODUCED ERRED, OR USED IN THE U. S. OR	20. DOES THE OV VARIETY BE L IF YES, WHICH 21. DOES THE OV LIMITED AS TO NUMBER 1, 2, (If additional ex.) 23. IS THE VARIET PROPERTY RICH YES IF YES, GIVE COREFERENCE NO	Control of the contro	F THIS LASSES? FION RI RISSES BE FOR RISSES BE RISSES B	NO (If "no," go to item 22) YES NO REGISTERED CERTIFIED YES NO REGISTERED CERTIFIED indicated on the reverse.) PROTECTED BY INTELLECTUAL NT)? AND ASSIGNED erse.)	
24. The owners declare that a viable sample of basic seed of the var for a tuber propagated variety a tissue culture will be deposited in The undersigned owner(s) is(are) the owner of this sexually represent and is entitled to protection under the provisions of Section 42 of Owner(s) is(are) informed that false representation herein can jet	oduced or tuber propagated plant val the Plant Variety Protection Act.	riety, and believe(s) that	the variety is new, distinct, unif	th such regula	tions as may be applicable, or le as required in Section 42,	
NAME (Please print or type) Daria H. Schmidt		NAME (Please print	or type)			
CAPACITY OR TITLE Director, Associative Genetics/Technology Integration RT-470 (2-98) designed by the Plant Variety Protection Office with Wor	DATE / Jan / O GPerfect 6.0g. Replaces STD-470 (CAPACITY OR TITLE		and the second s	DATE mation collection burden statement)	

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GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mall application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for Issuance of the certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Cente at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (2-99) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (6-98) which is obsolete.

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 97B52

Variety 97B52 evolved from a 1995 cross of 97B61/90773G027 (9584///A4715//9392*2/40-3-2).

It is an F5-derived variety, which was advanced to the F5 generation by modified single seed descent. The F6 progeny row of 97B52 was grown in the summer of 1998. Subsequently, 97B52 has undergone two years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield potential and resistance to labeled rates of Roundup Ready Branded herbicides, variety 97B52 was assigned a commercial number.

The purification block was grown during the summer of 1999 and 31 sublines were bulked for increase. 24 acres of 97B52 (breeders seed) were grown in the summer of 2000 and 1054 bushels harvested.

Exhibit B. Statement of Distinctness

Soybean Variety 97B52

Variety 97B52 is most similar to 97B61. Both varieties have purple flowers, tawny pubescence and yellow seeds with black hila, and resistant to race 3 of Soybean Cyst Nematode. However, 97B52 is susceptible to race 14 of Soybean Cyst Nematode and resistant to Roundup branded herbicides whereas 97B61 is resistant to race 14 of Soybean Cyst Nematode and susceptible to Roundup branded herbicides.

Variety 97B52 is also similar to 97B61. Both varieties have purple flowers, tawny pubescence, yellow seeds with black hila, and resistant to race 3 of Soybean Cyst Nematode. However, 97B52 is resistant to Southern Root Knot Nematode and resistant to Roundup branded herbicides whereas 9671 is susceptible to Southern Root Knot Nematode and susceptible to Roundup branded herbicides.

Variety 97B52 is also similar to S7555 from Novartis Seeds. Both varieties have purple flowers, tawny pubescence, yellow seeds with black hila, and resistant to race 3 of Soybean Cyst Nematode. However, 97B52 is resistant to labeled rates of Roundup branded herbicides whereas S7555 is susceptible to Roundup branded herbicides.

Variety 97B52 is also similar to H7550RR from Hartz Seeds. Both varieties have purple flowers, tawny pubescence, yellow seeds with black hila, resistant to race 3 of Soybean Cyst Nematode and resistant to labeled rates of Roundup branded herbicides. However, 97B52 is susceptible to race 1 of *Phytophthora megasperma* var. *sojae* whereas H7550RR is resistant to race 1 of *Phytophthora megasperma* var. *sojae*.

Form Approved - OMB No. 0581-0055

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
Pioneer Hi-Bred International	PVPO NUMBER
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	20010007
7300 N.W. 62 nd Avenue P.O. Box 1004 Johnston, IA 50131-1004	VARIETY NAME 97B52
Johnston, 12, 30131-1004	TEMPORARY OR EXPERIMENTAL DESIGNATION
PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the variebelow.	ctal character of this variety in the boxes
Place a zero in the first box (e.g. 9 9 9 or 0 9) when number is either 99 or less of quantitative	r 9 or less respectively. Data for
plant characters should be based on a minimum of 100 plants. Comparative data should be determined from	
Horticultural Society or any recognized color standard may be used to determine plant colors; designate system	n used:
Please answer all questions for your variety; lack of response may delay progress of your application.	
A. MORPHOLOGY Seed Shape:	
1 = Spherical 2 = Spherical-Flattened (L/W, L/T, and T/W ratios < 1.2) (L/W ratio > 1.2; L/T ratio < 1.2)	
3 = Elongate (L/T ratio > 1.2; T/W ratio < 1.2) 4 = Elongate-Flattened (L/T ratio > 1.2; T/W ratio > 1.2)	
Seed Coat Color:	
1 = Yellow 2 = Green 3 = Brown 4 = Black	5 = Other (Please Specify)
Seed Coat Luster:	
1 = Dull 2 = Shiny	
Seed Size:	
1 2 grams/100 seeds	
Hilum Color:	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	= Imperfect Black

A. MORPHOLOGY (Continued)

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Cotyledon Color:

1 = Yellow

2 = Green

Seed Protein Peroxidase Activity:

1 = Low

2 = High

Hypocotyl Color:

1 = Green

2 = Green with Bronze

('Evans' or 'Davis') Bands below Cotyledons ('Woodworth' or 'Tracy') 3 = Light Purple below Cotyledons

('Beeson' or 'Pickett 71')

4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaflet Shape:

1 = Lanceolate 3

2 = Oval

3 = Ovate

4 = Other (*Please Specify*)

Flower Color:

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

1 = Tan

2 = Brown

3 = Black

Pubescence Color:

1 = Gray

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

1

1 = Determinate

2 = Semi - Determinate

3 = Indeterminate

4 = Intermediate

Maturity Group:

1 0 1 = 000 $6 = \mathbf{m}$

2 = 007 = IV 3 = 08 = V

4 = I9 = VI $5 = \Pi$ 10 = VII

11 = VIII

12 = IX

13 = X

14 = XI

15 = XII

Maturity Subgroup:

Please enter a value from 0 - 9

DISEASE REACTIONS

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

Bacterial

0 Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)

Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)

0 Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

p n	ISEASE REAC	TION	S (Continua	<i>a</i> n n	= Not Tested	1 :	= Suscept	ibla	2 = D	esistant	0 1	0 olerant	0 7	77.
Funga		HOIN	5 (Commue	<i>u</i>) 0	- Not Testeu		— завсері	ibic	<i>4</i> N	Colount		. 0101 11110		
1	Brown Spot (Septoi	ria glycines	Hemmi)										
	Frogeye Leaf	Spot	(Cercospora	sojina H	ara)									
0	race 1			0 ra	ace 2		0	race 3		0 ra	ce 4			
0	race 5			0 ra	ice 6		0	Other ((Please	Specify) .		·	_	
0	Target Spot (Coryn	espora cassi	<i>licola</i> (Be	rk. & Curt.) V	Vei)								
0	Downey Mild	ew (P	eronospora i	trifolioru	m var. manch	urica (P	Naum.) Sy	d. ex Gä	um)					
0	Powdery Mile	dew (A	Aicrosphaer	a diffusa	Cke. & Pk.)									
0	Brown Stem I	Rot (P	hialophora _e	gregata (.	Allington & C	hamber	lain) W. (Gams.)						· . ' .
0	Stem Canker	(Diap	orthe phased	olorum (C	Cke. & Ell.) Sa	cc. var.	caulivora	Athow o	& Cald	lwell)				
1	Pod and Stem	Bligh	t (<i>Diaporth</i>	e phaseol	orum (Cke. &	Ell.) Sa	cc. var. <i>se</i>	<i>ojae</i> (Leh	ıman) '	Wehm.)				
0	Purple Seed S	stain (Cercospora .	kikuchii (T. Matsu. & T	Готоуа	su) Garde	ener)						
1	Rhizoctonia R	Root R	ot (<i>Rhizocto</i>	nia solan	ıi Kühn)									
Phytop	ohthora Root Ro	ot (Phy	ytophthora n	negasper	ma Drechs. f. s	sp. <i>glyci</i>	nea (Kua	n & Erw	(in))					
1	race 1	0	race 8	0	race 15	0	race 22							
0	race 2	0	race 9	0	race 16	0	race 23					•		
0	race 3	0	race 10	0	race 17	0	race 24							
0	race 4	0	race 11	0	race 18	0	race 25							
0	race 5	0	race 12	0	race 19	0	race 26		10)	v				
0	race 6	0	race 13	0	race 20 race 21	0	Other (Please S _i	pecify)					
0	race 7	0	race 14	0	race 21		MANAGE		******			•		
1	Bud Blight (To	obacco	o Ringspot '	Virus)					·					٠.
1	Yellow Mosaid	e (Bea	n Yellow M	osaic Vir	us)									

B. D.	SEASE REACTIONS (Continued)	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
1	Cowpea Mosaic (Cowpea Chlorotic V	virus)			
1	Pod Mottle (Bean Pod Mottle Virus)				
1	Seed Mottle (Soybean Mosaic Virus)				
Nemat	ode				
Soybea	nn Cyst Nematode (Heterodera glycines	Ichinohe)			
0	race 1 0 race 4	0 rac	e 9		
0	race 2 0 race 5	1 rac	e 14		·*
2	race 3 0 race 6	0 Ott	ner (<i>Please Specify</i>)		
0	Lance Nematode (Hoplolaimus column	bus Sher)			er e
2	Southern Root Knot Nematode (Melon	idogyne incognita	(Kofoid & White) Ch	itwood)	
0	Northern Root Knot Nematode (Melon	idogyne hapla Cl	nitwood)		
1	Peanut Root Knot Nematode (Meloido	egyne arenaria (N	leal) Chitwood)		
0	Reniform Nematode (Rotylenchus reni	<i>formus</i> Linwood	& Olivera)		
0	Javanese Nematode (Meloidogyne java	nica (Treub) Ch	itwood)		
0	Other Nematode (Please Specify)				:
C. PH	YSIOLOGICAL RESPONSES	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
0	Iron Chlorosis on Calcareous Soil				
0	Phosphorus	0 Oth	er (<i>Please Specify</i>)		
0	Boron				
0	Aluminum				
0	Salt				
0	Drought				

D. INSECT REACTIONS	0 = Not Tested	1 = Susceptible	$2 \cup 0 \cup 0 \cup 7$ $2 = Resistant \qquad 3 = Tolerant$
Mexican Bean Beetle (Epilaci	hna varivestis Mulsant)		
O Potato Leaf Hopper (Empoas	ca fabae (Harris))		
Other (Please Specify)		_	
E. HERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant
2 Metribuzin	:		
0 Bentazone			
0 Sulfonylurea			
2 Glyphosate			
0 Glufosinate			
0 Pendimethalin			
Other (Please Specify)			
F. TRANSGENIC COMPOSITION			
Has the development of the subject valor, the removal of genetic material fro If yes, please complete the following in	m the application variety?		rom an organism other than a soybean, cessary. X YES NO
1. Please state the vector's name:	·		
2. Please state the vector components	::		
3. Please describe the genetic materia	al successfully transferred	into the subject varie	ty:
4. Please describe the insertion proto	col:		
*A literature citation(s) explaining the "Transgenic Composition" portion of		above may be an acc	eptable alternative to completion of the
This section is fully address in the follow summarized in Figure 1 and Table 1 on p		tails of the vector com	ponents and insert elements are
Padgette, S.R. et al. Development, Identi 35:1451-1461	fication, and Characterization	on of a Glyphosate-Tol	erant Soybean Line. 1995. Crop Science.
G. BIOCHEMICAL MARKERS			
Please describe any biochemical inform	nation here, which you beli	eve will be helpful in	further describing the subject variety

pages if necessary.

(e.g. Simple Sequence Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional

H. COMMENTS

Exhibit D. Additional Description of the Variety

Soybean Variety 97B52

In Exhibit C we have identified variety 97B52 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 97B52 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 97B52 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 97B52 is a mid Group VII variety. If Group VII varieties are divided into tenths, the relative maturity of 97B52 is 7.5.

REPRODUCE LOCALLY. Include form number and edition date on a		FORM APPROVED - OMB No. 0581-005
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made 1974 (5 U.S.C. 552a) and the Pape	in accordance with the Privacy Act of r Reduction Act (PRA) of 1995.
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to de certificate is to be issued (7 U.S.C. confidential until the certificate is issued to the cer	2421). The information is held
NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	2. VARIETY NAME
Pioneer Hi-Bred International, Inc.	OR EXPERIMENTAL NUMBER	97B52
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
7300 NW 62 nd Avenue	515-254-2638	515-253-2288
P. O. Box 1004 Johnston, IA 50131-1004	7. PVPO NUMBER	
	2001	00077
8. Does the applicant own all rights to the variety? Mark an "X" in the lf no, please explain.	ne appropriate block.	VEC NO
ii iio, piease explain.		X YES NO
Is the applicant (individual or company) a U.S. National or a U.S.If no, give name of country	based company?	X YES NO
10. Is the applicant the original owner?	If no, please answer one of the fo	Mowing
X YES NO		mownig.
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Natio	nal(s)?
YES NO If no, give name of count		.,
	•	and assuments
b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a 0.5. b	ased company?
YES NO If no, give name of count	try	
11. Additional explanation on ownership (If needed, use the reverse	for extra space):	
	•	
Please Note:		
Plant variety protection can only be afforded to the owners (not licen	sees) who meet the following criteria:	
 If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals of 	person must be a U.S. national, national of the U.S. for the same genus and spe	I of a UPOV member country, or cies.
If the rights to the variety are owned by the company which emplo nationals of a UPOV member country, or owned by nationals of a genus and species.		
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must	meet one of the above criteria.
Fhe original breeder/owner may be the individual or company who di Act for definitions.	irected the final breeding. See Section	41(a)(2) ot the Plant Variety Protection
according to the Paperwork Reduction Act of 1995, no persons are required to respond to a or this information collection is 0581-0055. The time required to complete this information structions, searching existing data sources, gathering and maintaining the data needed, a	collection is estimated to average 6 minutes per res	ponse, including the time for reviewing the
the U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the tatus. (Not all prohibited bases apply to all programs). Persons with disabilities who requir ontact the USDA's TARGET Center at 202-720-2600 (voice and TDD).	basis of race, color, national origin, sex, religion, ag- re alternative means for communication of program i	e, disability, political beliefs, and marital or familial nformation (braille, large print, audiotape, etc.) should
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